

Bridge Design Speed Investigation

Bridge #5 on SR 1349 (Pigeon Roost Road) over Pigeonroost Creek
Mitchell County



Document Prepared By:

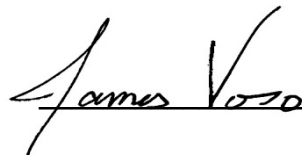
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Commission No: 3350

July 22, 2013



Investigating Engineer


James Voso, PE

Bridge and Approach Investigation Checklist

Project 17BP.13.PE.1
Description Replace Bridge #5 on SR 1349 (Pigeonroost Rd) over Pigeonroost Creek
Route SR 1349 (Pigeon Roost Rd)
Division 13
County Mitchell

Existing Speed Limit 35 mph ☒ Posted ☐ Statutory

Reasonable & Comfortable
Passenger Car Speed 20 mph

Speed Data N/A

Ball Bank Speed Study Curve north of Bridge #5 had a ball bank indication of 16 at 20 mph.

Warning Signs at Bridge 4 Bridge End Delineators, Weight Limit (30 tons - single vehicle,
33 tons - truck tractor semitrailer), Narrow Bridge warning sign

Roadside Development Wooded in northwest and southeast quadrants of bridge. Residences in
northeast and southwest quadrants of bridge.

ADT History 260 (2011), 310 (2009), 190 (2007), 220 (2005), 220 (2003), 400 (1999)

Pedestrian/Bicycle Traffic Low

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 10'

Approach Shoulder Width: 7'
Shoulder Type grass

Lane Width (existing bridge) 11'

Shoulder width (existing bridge) 2'

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two lane cross section at 20
mph based on 3R guidelines.

Crash History and
Safety Considerations No crashes reported (5/1/2003 - 4/30/2013, 10 years).

Comments Stop Ahead warning sign posted south of bridge. Bridge number posted
on bridge. Driveway near north end of bridge. Access road near south end
of bridge.

Reasonable Bridge Speed 20 mph

Investigated by: Mathew Bolden Reviewed by: James Voso

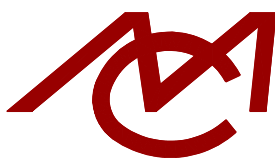


Bridge #5
Mitchell County
Division 13



VICINITY MAP

Bridge #5 on SR 1349
(Pigeon Roost Road)
over Pigeonroost Creek



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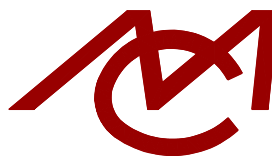


Northbound Approach



Northbound Approach at bridge

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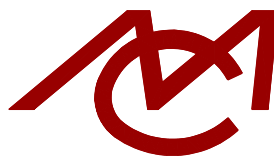


Southbound Approach



Southbound Approach at bridge

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